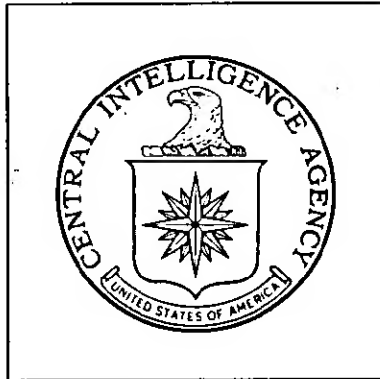


Top Secret



**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Selected Cement Plants

China

Top Secret

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RCS 13/0031/70

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DATE MAY 1970

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report covers 44 major cement plants in China, which are all those known to be equipped with rotary kilns as of January 1970. It includes the initial basic studies on four plants at Chi-lin, Hu-chou, Liao-yang, and Lin-ping, and provides updates for 37 of the 40 plants covered in the previous Basic Imagery Interpretation Report on cement plants in China. The other three plants, at Chao-hsien, Fu-shun, and Nan-ping, have not been seen on interpretable photography since the previous report. This report covers the period April 1969 to January 1970.

Of the 44 plants, the three at Wan-nien, Ying-te, and Yung-an remain incomplete. The other 41 plants are complete and considered operational. They contain at least 90 and probably 96 rotary kilns. During the period of this study, 69 rotary kilns were observed in operation at 35 plants. No kilns were seen in operation at Chung-ching, Liao-yang, and Pen-chi South. No new construction was initiated at any of the plants during 1969. Only one new kiln, a fourth kiln at the Tzu-po plant, is known to have been completed and put into operation during the year.

-1-

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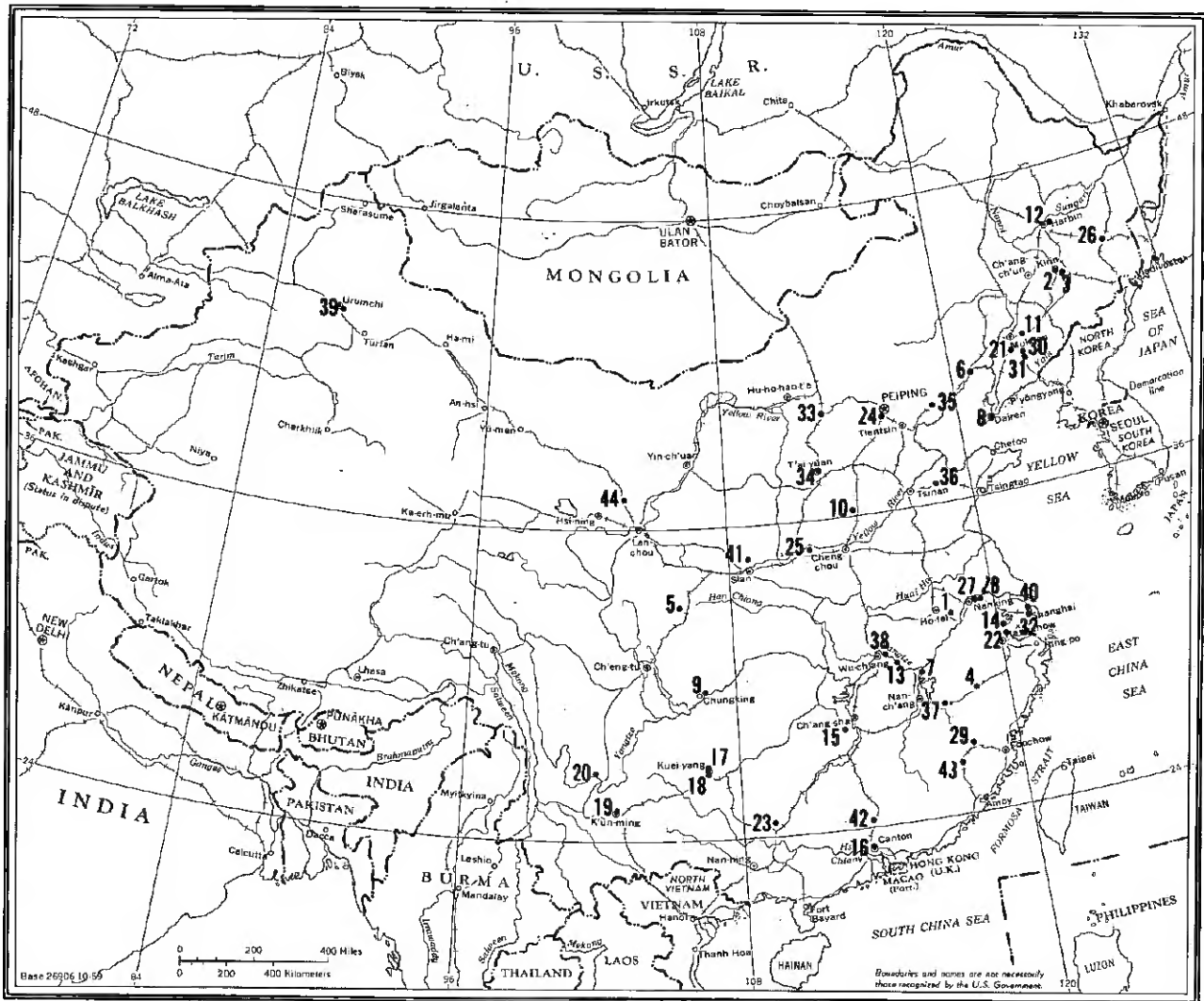


FIGURE 1. LOCATION MAP OF SELECTED CEMENT PLANTS IN CHINA.

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INTRODUCTION

This report presents information on the current status of the following major cement plants in China:

1. Chao-hsien Cement Plant.
2. Chi-lin (Kirin) Cement Plant.
3. Chi-lin Cement Plant 2.
4. Chiang-shan Cement Plant.
5. Chien-ko Cement Plant.
6. Chin-hsi Cement Plant.
7. Chiu-chiang Cement Plant.
8. Chou-shui-tzu Cement Plant.
9. Chung-ching (Chungking) Cement Plant.
10. Feng-feng Cement Plant.
11. Fu-shun Cement Plant.
12. Ha-erh-pin (Harbin) Cement Plant.
13. Huang-shih Cement Plant.
14. Hu-chou Cement Plant.
15. Ku-shui Cement Plant.
16. Kuang-chou (Canton) Cement Plant.
17. Kuei-yang Cement Plant 2.
18. Kuei-yang Cement Plant 3.
19. Kun-ming Cement Plant.
20. Kuo-kuo Cement Plant.
21. Liao-yang Cement Plant.
22. Lin-ping Cement Plant.
23. Liu-chou Cement Plant.
24. Liu-li-ho Cement Plant.
25. Miao-tou-chai Cement Plant Shih-fu.
26. Mu-tan-chiang Cement Plant Wen-chuan.
27. Nan-ching (Nanking) Cement Plant Kiang-nan.
28. Nan-ching Cement Plant Lung-tan.
29. Nan-ping Cement Plant.
30. Pen-chi Cement Plant Kung-yuan.
31. Pen-chi Cement Plant South.
32. Shang-hai Cement Plant.
33. Ta-tung Cement Plant.
34. Tai-yuan Cement Plant.
35. Tang-shan Cement Plant Chi-hsin.
36. Tzu-po Cement Plant Nan-ting.
37. Wan-nien Possible Cement Plant.
38. Wu-chang Cement Plant.

TOP SECRET

TOP SECRET

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- 39. Wu-lu-mu-chi (Urumchi) Cement Plant.
- 40. Wu-sung Cement Plant.
- 41. Yao-hsien Cement Plant.
- 42. Ying-te Cement Plant.
- 43. Yung-an Cement Plant.
- 44. Yung-teng Cement Plant.

Requirement

COMIREX NO1
Support Number 420361

Document Reference

CIA. RCS 13/0145/69, Selected Cement Plants, China, June 1969,
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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chao-hsien Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RNK799988	31-37-20N 117-50-10E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0493-4HL, 4th ed, Apr 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

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NOTICE

The Chao-hsien Cement Plant has not been seen on interpretable photography since February 1969, the date of the latest imagery used in the previous report.

TOP SECRET

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TOP SECRET**INSTALLATION OR ACTIVITY NAME****COUNTRY**

Chi-lin Cement Plant

CH

UTM COORDINATES**GEOGRAPHIC COORDINATES**

52TCD030622

43-53-05N 126-32-30E

25X1

MAP REFERENCE

USATC, Series 200, Sheet M0290-3HL, 3rd ed, Jul 65, Scale 1:200,000

25X1

(SECRET)

25X1

LATEST IMAGERY USED**NEGATION DATE (If required)**

NA

25X1

BASIC DESCRIPTION

There has been no apparent change in the Chi-lin Cement Plant since December 1968, the date of the latest photography used in the previous report.

Heavy smoke was emanating from one of the two stacks on all the referenced imagery indicating that one of the two kilns was in operation.

25X1

TOP SECRET

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TOP SECRET

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Chi-lin Cement Plant 2

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

BE NUMBER

COMIREX NO.

NIETB NO.

52TCD079634

43-54-05N 126-36-25E

None

None

None

MAP REFERENCE

USATC, Series 200, Sheet M0290-3HL, 3rd ed, Jul 65, Scale 1:200,000

(SECRET)

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

Chi-lin Cement Plant 2 is located in the northern sector of Chi-lin adjacent to the Chi-lin Carbide Plant. It is road and rail served and occupies a fenced area approximately 1,200 by 550 feet.

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TOP SECRET

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TOP SECRET

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This plant produces cement by the wet process. It has one rotary kiln which measures [REDACTED]. In addition to those items annotated on the photograph, the plant includes a primary crushing and grinding section, a coal preparation building, and four storage silos.

25X1

Construction of this plant began between November 1965 and January 1966. It appeared to be structurally complete on photography of August 1968 and was first observed in operation in December 1968. Heavy smoke has been seen emanating from the kiln stack on all subsequent coverage.

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TOP SECRET

INSTALLATION OR ACTIVITY NAME		COUNTRY
Chien-ko Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
--	32-05-00N 105-06-00E	
MAP REFERENCE		
ACIC. Tactical Pilotage Chart, Sheet G-9D, May 67, Scale 1:500,000 (UNCLASSIFIED)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Chien-ko Cement Plant since November 1968, the date of the latest imagery used in the previous report.

One of the three kilns was in operation on [] as evidenced by a moderate amount of smoke emanating from one of the three stacks.

25X1

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TOP SECRET

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TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Chin-hsi Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TUF188.30	40-45-42N 120-51-01E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0289-24HL, 4th ed, Aug 69. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

BASIC DESCRIPTION

There has been no apparent change in the Chin-hsi Cement Plant since November 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from the stack serving two of the three kilns in May and December 1969 indicating that at least one of the two kilns was in operation.

25X1

- 11 -

TOP SECRET

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TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Chiu-chiang Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RMH120753	29-36-25N 1 6-05-30E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0493-12HL. 2nd ed. Oct 67. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Chiu-chiang Cement Plant since November 1968, the date of the latest imagery used in the previous report.

Smoke was emanating from the stack serving the kiln on all the referenced imagery.

25X1

TOP SECRET

25X1

TOP SECRET

INSTALLATION OR ACTIVITY NAME		COUNTRY
Chou-shui-tzu Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51SUD733141	38-58-12N 121-32-18E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-9HL, 3rd ed. May 67. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Chou-shui-tzu Cement Plant since February 1969, the date of the latest imagery used in the referenced report.

Heavy smoke was emanating from both stacks indicating that the two kilns were operating on all the referenced imagery.

25X1

TOP SECRET

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TOP SECRET

INSTALLATION OR ACTIVITY NAME		COUNTRY
Chung-ching Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48RXH518693	29-32-40N 106-34-03E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0495-19HL, 3rd ed, Mar 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

BASIC DESCRIPTION

There has been no apparent change in the Chung-ching Cement Plant since August 1968, the date of the latest imagery used in the previous report.

The plant did not appear to be in operation in August 1969, the date of the only interpretable imagery. No smoke was seen issuing from any of the stacks.

--

TOP SECRET

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Feng-feng Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SKR502383	36-26-00N 114-10-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Feng-feng Cement Plant since December 1968, the date of the latest imagery used in the previous report.

There was a moderate amount of smoke emanating from two of the three stacks indicating that two kilns were in operation

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TOP SECRET

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TOP SECRET

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Fu-shun Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWG719326	41-51-01N 123-51-49E	
MAP REFERENCE		
USATC, Series 200, Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

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NOTICE

The Fu-shun Cement Plant has not been seen on interpretable photography since April 1969, the date of the latest imagery used in the previous report.

TOP SECRET

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TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ha-erh-pin Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
52TCF220782	45-49-45N 126-42-59E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0283-13HL, 2nd ed, Dec 64, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

BASIC DESCRIPTION

There has been no apparent change in the Ha-erh-pin Cement Plant since January 1969, the date of the latest imagery used in the previous report.

Moderate to heavy smoke was emanating from the stack serving the two kilns on all the referenced imagery

25X1

TOP SECRET

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25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Huang-shih Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RLJ151448	30-13-22N 115-04-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0493-IIHL, 4th ed, Jul 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

There has been no apparent change in the Huang-shih Cement Plant since November 1967, the date of the latest imagery used in the previous report.

In December 1969 both kilns were operating, as indicated by smoke emanating from the two dust catchers. In July the plant did not appear to be operating as no dust or smoke was seen.

--

TOP SECRET

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hu-chou Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
5IRTE221273	30-56-42N 120-05-30E	
MAP REFERENCE		
ACIC. LSATC, Series 200, Sheet M0492-6HL, 4th ed, Oct 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

25X1

25X1

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BASIC DESCRIPTION

Hu-chou Cement Plant is located 4.8 nm north of the center of Hu-chou. The plant is road and water served; partially secured by a wall, and occupies an area approximately 1,000 by 950 feet.

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TOP SECRET

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25X1

This plant produces cement using the wet process. The raw materials for this production are obtained from a quarry 3,500 feet to the north and transported to the plant by barge. Most of the preparation of materials takes place at the quarry, with the final preparation at the plant.

The plant has one rotary kiln measuring 220 by 10 feet which is served by a large masonry stack. In addition to those items annotated on the photograph, the plant includes a coal preparation facility, a gypsum preparation section, a packing and shipping building with six silos, and several support buildings.

Except for the storage silos and the packing and shipping building, the plant was complete and operating in February 1962. The storage and shipping facility was built between December 1964 and October 1965. Smoke was seen emanating from the stack on all the referenced coverage except October 1965 and March and May 1966.

25X1

TOP SECRET

25X1
25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ku-shui Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RFA178691	27-44-00N 112-12-00E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0497-5HL, 2nd ed. Nov 65. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
<div data-bbox="74 772 662 825" style="border: 1px solid black; width: 362px; height: 25px;"></div>		NA

25X1

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BASIC DESCRIPTION

There has been no apparent change in the Ku-shui Cement Plant since February 1969, the date of the latest imagery used in the previous report.

In September 1969 smoke was seen emanating from both dust catchers indicating that the two kilns were in operation. In July the plant did not appear to be operating as no dust or smoke was seen.

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25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Kuang-chou Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49QGR292630	23-09-10N 113-14-15E	
MAP REFERENCE		
USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

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25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Kuang-chou Cement Plant since February 1969, the date of the latest coverage in the previous report.

A moderate amount of smoke was emanating from two of the four dust catchers in September and December 1969 indicating that two of the four kilns were in operation.

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TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME

COUNTRY

Kuei-yang Cement Plant 2

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

48RXE672385

26-33-21N 106-40-45E

25X1

MAP REFERENCE

15th RTS. USATC, Series 200, Sheet M0496-10HL, 2nd ed, Oct 65, Scale 1:200,000
(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

25X1

BASIC DESCRIPTION

There has been no apparent change in Kuei-yang Cement Plant 2 since April 1968, the date of the latest imagery used in the previous report.

Light smoke was emanating from the stack in March 1969 indicating the kiln was in operation, but no smoke was visible in August.

25X1

TOP SECRET25X1
25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME

COUNTRY

Kuei-yang Cement Plant 3

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

48RXE664350

26-31-30N 106-40-15E

25X1

MAP REFERENCE

15th RTS. USATC, Series 200, Sheet M0496-10HL, 2nd ed, Oct 65, Scale 1:200,000
(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

25X1

BASIC DESCRIPTION

There has been no apparent change in Kuei-yang Cement Plant 3 since April 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from two of the four dust catchers in March 1969 indicating that two of the four kilns were in operation.

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TOP SECRET

25X1

25X1

TOP SECRET25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Kun-ming Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48RTC600688	25-00-45N 102-37-20E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed, Jan 68, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	
	25X1	

BASIC DESCRIPTION

There has been no apparent change in the Kun-ming Cement Plant since May 1968, the date of the latest imagery used in the previous report.

One of the two kilns was operating in February 1969 as indicated by smoke emanating from one dust catcher.

REFERENCES

	25X1
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TOP SECRET

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TOP SECRET

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INSTALLATION OR ACTIVITY NAME				COUNTRY	
Kuo-kuo Cement Plant				CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		BE NUMBER	COMREX NO.	NIETB NO.
47RQV569445	26-35-55N 101-34-40E		None	None	None
MAP REFERENCE					
AMS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED)					
LATEST IMAGERY USED			NEGATION DATE (If required)		
			NA		

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Kuo-kuo Cement Plant since February 1969, the date of the latest imagery used in the previous report.

A light amount of smoke was emanating from the dust catcher serving the two kilns in May and September 1969.

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TOP SECRET

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25X1

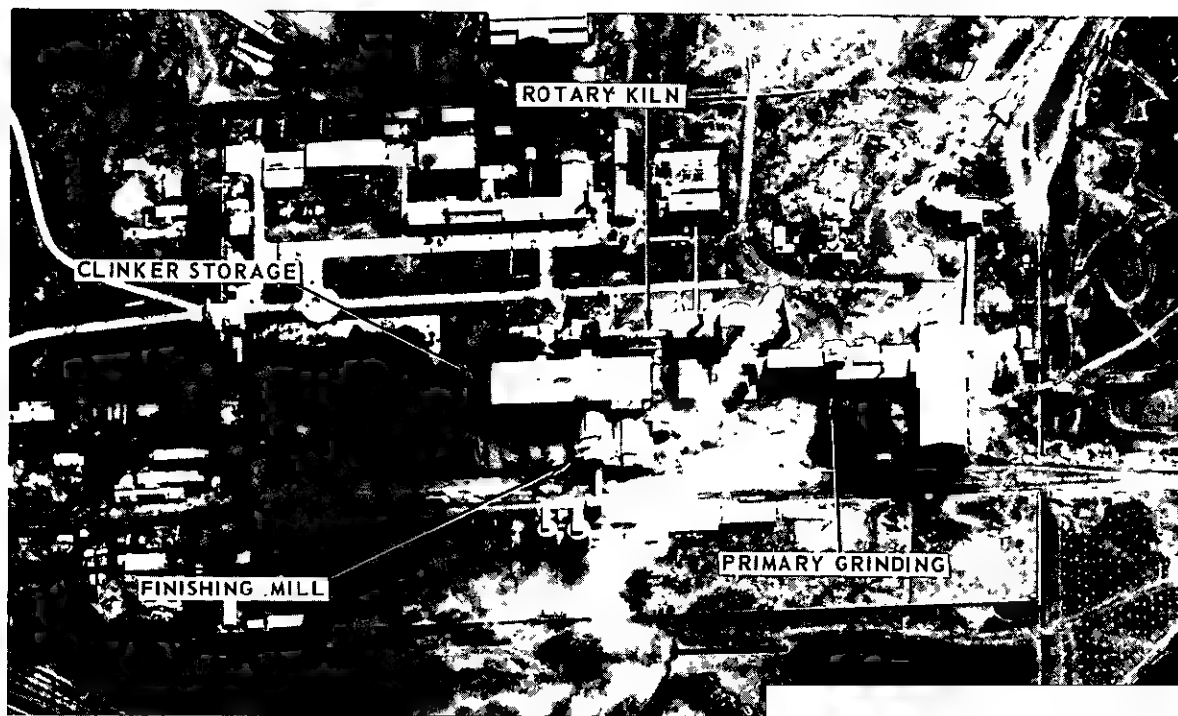
INSTALLATION OR ACTIVITY NAME					COUNTRY	
Liao-yang Cement Plant					CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		BE NUMBER	COMIREX NO.	NIETB NO.	
51TWF285635	41-13-35N 123-20-15E		None	None	None	
MAP REFERENCE						
USATC, Series 200, Sheet M0290-16HL, 4th ed, Jul 65, Scale 1:200,000 (SECRET)						
LATEST MAGERY USED			NEGATION DATE (If required)			
			NA			

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BASIC DESCRIPTION

Liao-yang Cement Plant is located 7.5 nm southeast of the center of Liao-yang. The plant is road and rail served, secured by a wall, and occupies an area approximately 1,300 by 850 feet.

This plant produces cement by the dry process. The raw materials are brought to the plant by small mine cars from a quarry 2,500 feet to the south.

TOP SECRET

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TOP SECRET

25X1

The plant has one partially housed rotary kiln served by a large masonry stack. The visible portion of the kiln measures 120 [] feet and it is estimated that the housed portion is 80 feet long. In addition to those facilities annotated on the photograph, the plant includes a coal preparation facility, a gypsum preparation section, a raw material storage building, a packing and shipping facility with four storage silos, a transformer substation with one transformer, an administration/test building, and numerous support buildings. A probable mining explosive storage facility with four small bunkered buildings is located 850 feet south of the plant.

25X1

The plant was constructed prior to December 1961 and there has been no apparent change since that time. Smoke was seen emanating from the stack in December 1961, January and August 1962, May 1963, September 1964, and April and November 1966, indicating that the plant was operating.

25X1

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TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Lin-ping Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51RTD339672	30-24-30N 120-13-45E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0492-6HL, 4th ed. Oct 67. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

25X1

BASIC DESCRIPTION

Lin-ping Cement Plant is located 2.9 nm southwest of Lin-ping. The plant is road served, partially secured by a wall, and occupies an area approximately 1,100 by 750 feet.

TOP SECRET

25X1

TOP SECRET

25X1

This plant produces cement by the dry process. The raw materials are taken from two quarries just southwest of the plant and moved to the plant by a conveyor. There is probably one rotary kiln housed in a building 200 by 35 feet and served by a large masonry stack. In addition to those items annotated on the photograph, the plant includes a coal preparation section, a gypsum preparation section, a packing and shipping facility with 14 storage silos, and several support buildings.

The plant was complete and operating in February 1962. The only apparent change since that date has been the lengthening of the raw materials storage building. Smoke was issuing from the stack, indicating that the plant was operating, on all referenced photography except July 1962, May 1966, January 1967, November 1968, and February 1969.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

INSTALLATION OR ACTIVITY NAME		COUNTRY
Liu-chou Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49RCS225963	24-22-20N 109-15-20E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0497-22HL, 2nd ed, Apr 65, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

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25X1

BASIC DESCRIPT ON

There has been no apparent change in the Liu-chou Cement Plant since February 1969, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from all three dust catchers on coverage of [] indicating that all three kilns were in operation.

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25X1

TOP SECRET

25X1

25X1

TOP SECRET25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Liu-li-ho Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SMU161836	39-35-51N 116-01-41E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

There has been no apparent change in the Liu-li-ho Cement Plant since November 1968, the date of the latest imagery used in the previous report.

Smoke was emanating from one of the two stacks on [] and from both stacks on []

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25X1

25X1

TOP SECRET

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TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Miao-tou-chai Cement Plant Shih-fu		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49SEJ935439	34-44-00N 112-01-00E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0385-8HL, 2nd ed. May 66. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

There has been no apparent change in the Miao-tou-chai Cement Plant since November 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from the two dust catchers in December 1969 indicating that both kilns were in operation.

25X1

TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Mu-tan-chiang Cement Plant Wen-chuan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
52TEE383185	44-25-24N 129-28-58E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0283-25HL. 4th ed, Oct 68, Scale 1:200,000 (SECRET, [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Mu-tan-chiang Cement Plant since December of 1968, the date of the latest imagery used in the previous report.

Heavy smoke was emanating from the stack serving the single kiln on both coverages in December 1969.

25X1

TOP SECRET

25X1

TOP SECRET

25X1

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Cement Plant Kiang-nan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPL864590	32-09-25N 118-58-35E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0386-23HL, 4th ed, Aug 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Nan-ching Cement Plant since August 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from the stack serving the two kilns in October and December 1969.

25X1

TOP SECRET

25X1

25X1

TOP SECRET25X1
25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Cement Plant Lung-tan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SPL953603	32-10-07N 119-04-01E	
MAP REFERENCE		
8th RTS. USATC, Series 200. Sheet M0386-23HL. 4th ed, Aug 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Nan-ching Cement Plant since January 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was issuing from all three stacks in October and December 1969 indicating that at least three kilns were operating.

25X1

TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ping Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RPE156436	26-36-25N 118-09-35E	
MAP REFERENCE		
548th RTS. USATC, Series 200, Sheet M0498-10HL. 3rd ed. Apr 68. Scale 1:200,000		
(SECRET, [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

NOTICE

The Nan-ping Cement Plant has not been seen on interpretable photography since November 1968, the date of the latest imagery used in the previous report.

TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Cement Plant Kung-yuan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWF629720	41-18-11N 123-44-46E	
MAP REFERENCE		
USATC, Series 200, Sheet M0290-16HL, 4th ed, Jul 65, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

25X1

BAS C DESCRIPTION

There has been no apparent change in the Pen-chi Cement Plant since March 1969, the date of the latest imagery used in the previous report.

In December 1969 and January 1970 there was a moderate amount of smoke emanating from the stack serving the two kilns indicating that the plant was operating.

25X1

25X1

TOP SECRET

TOP SECRET

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Cement Plant South		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWF602680	41-15-56N 123-43-10E	25X1
MAP REFERENCE		
USATC Series 200, Sheet M0290-16HL, 4th ed, Jul 65, Scale 1:200,000 (SECRET, [REDACTED])		25X1 25X1
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		N/A

25X1

BASIC DESCRIPTION

There has been no apparent change in the Pen-chi Cement Plant South since March 1969, the date of the latest imagery used in the previous report.

There was no smoke from either stack on the referenced imagery. However, there was some steam or smoke emanating from the primary grinding section in January 1970 indicating that raw materials were probably being prepared for use in the two kilns.

25X1

TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY	
Shang-hai Cement Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X1
51RUE530488	31-09-40N 121-27-37E		
MAP REFERENCE			
2nd RTS. USATC, Series 200. Sheet M0492-7HL, 3rd ed, May 68, Scale 1:200,000			
(SECRET)			25X1
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	25X1

BASIC DESCRIPTION

There has been no apparent change in the Shang-hai Cement Plant since February 1969, the date of the latest imagery used in the previous report.

Moderate to heavy smoke was emanating from all the dust catchers, indicating that the five kilns were operating, on all the referenced imagery.

25X1

TOP SECRET25X1
25X1

TOP SECRET25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ta-tung Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49SFQ810286	39-59-08N 113-07-10E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet MO382-3HL, 2nd ed, Jul 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Ta-tung Cement Plant since November 1967, the date of the imagery used in the previous report.

A moderate amount of smoke was emanating from the dust catchers in October 1969 indicating that all four kilns were operating.

25X1

TOP SECRET25X1
25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Tai-yuan Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49SFM255933	37-52-00N112-25-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0382-13HL, 3rd ed, Jun 67, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA
		25X1

BASIC DESCRIPTION

There has been no apparent change in the Tai-yuan Cement Plant since March 1969, the date of the latest imagery used in the previous report.

The two kilns were operating in November 1969, as indicated by heavy smoke emanating from both stacks. The plant did not appear to be operating in August and October 1969 as no smoke was seen.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Tang-shan Cement Plant Chi-hsin		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPJ036878	39-37-47N 118-12-00E	
MAP REFERENCE		
USATC, Series 200, Sheet 0381-2HL, 2nd ed, Jan 64, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA
		25X1

BASIC DESCRIPTION

There has been no apparent change in the Tang-shan Cement Plant since December 1968, the date of the latest imagery in the previous report.

Heavy smoke was emanating from the stacks serving two kiln buildings, housing a total of four kilns, on [REDACTED] Smoke was emanating from the stack of one kiln building housing one kiln on [REDACTED] 1969.

25X1

25X1

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Tzu-po Cement Plant Nan-ting		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNR952680	36-45-10N 118-04-08E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-22HL, 4th ed, Jul 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

At the Tzu-po Cement Plant, a fourth kiln, which had been seen under construction previously, was completed and operational by October 1969. A moderate amount of smoke was seen emanating from two of the four dust catchers in October and December 1969 indicating that the new kiln and one of the older kilns were in operation.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Wan-nien Possible Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RNG062767	28-43-30N 117-03-50E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0493-23HL, 3rd ed, Nov 67, Scale 1:200,000 (SECRET/		
25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA
25X1		

BASIC DESCRIPTION

There has been no apparent change in the Wan-nien Cement Plant since November 1968, the date of the imagery used in the previous report. The plant remains incomplete and there has been no construction at the site since September 1963.

25X1

TOP SECRET

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-chang Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RKJ532919	30-38-00N 114-26-00E	
MAP REFERENCE		
USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Wu-chang Cement Plant since December 1968, the date of the latest imagery used in the previous report.

In August 1969 smoke was seen issuing from the stack serving the kiln indicating that it was in operation. The plant did not appear to be operating in July or October as no smoke was seen.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-lu-mu-chi Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
45TWJ467443	43-44-58N 087-34-55E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0330, 3rd ed, Jun 69, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA
		25X1

BASIC DESCRIPTION

There has been no apparent change in the Wu-lu-mu-chi Cement Plant since February 1969, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from both stacks in August and December 1969 indicating both kilns were in operation. The kilns did not appear to be operating in January 1970 as no smoke was issuing from the stacks, but a moderate amount of vapor was issuing from the finishing mill.

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25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-sung Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51RUE532709	31-21-42N 121-27-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	
25X1		

BASIC DESCRIPTION

There has been no apparent change in the Wu-sung Cement Plant since March 1969, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from the stack indicating that the kiln was operating in May and December 1969.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1

25X1

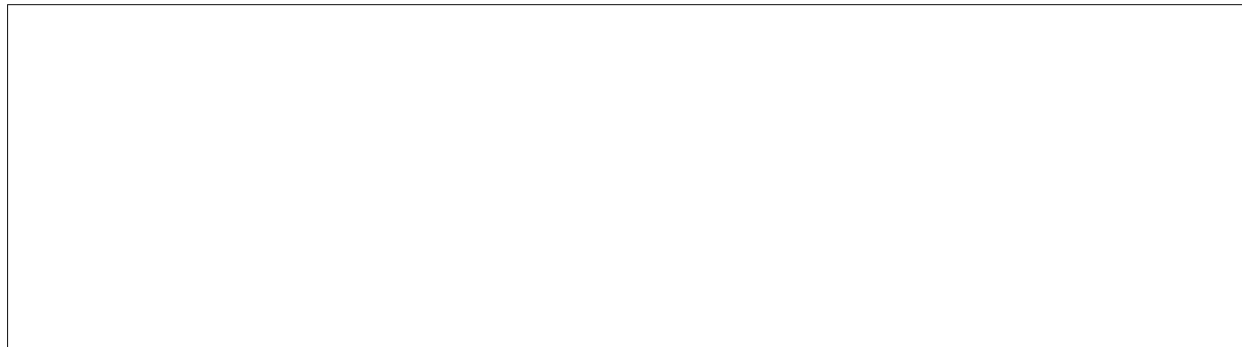
INSTALLATION OR ACTIVITY NAME		COUNTRY
Yao-hsien Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49SCJ145675	34-54-20N 108-59-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0384-10HL. 2nd ed. Jun 68. Scale 1:200 000 (SECRET/		
25X1		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	
	25X1	

BASIC DESCRIPTION

There has been no apparent change in the Yao-hsien Cement Plant since December 1968, the date of the latest imagery used in the previous report.

A moderate amount of smoke was emanating from two of the three stacks in May, October, and December 1969 indicating that two of the three kilns were operating.

25X1



TOP SECRET

25X1

25X1

TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Ying-te Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49RGS492918	24-19-10N 113-27-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet 0498-21HL, 1st ed, Mar 62, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the status of the Ying-te Cement Plant since February 1969, the date of the imagery used in the previous report. The plant remains incomplete and there has been no construction at the site since December 1962.

25X1

TOP SECRET

25X1

25X1

TOP SECRET

25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Yung-an Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RND318793	26-01-40N 117-19-10E	
MAP REFERENCE		
USATC, Series 200, Sheet M0498-14HL, 3rd ed, Dec 67. Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the status of the Yung-an Cement Plant since November 1968, the date of the latest imagery used in the previous report. The plant remains incomplete and there has been no significant construction at the site since January 1967.

25X1

TOP SECRET

25X1

25X1

TOP SECRET25X1
25X1
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Yung-teng Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48SUR408773	36-49-50N 103-13-00E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0383-16HL, 2nd ed, Sep 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

25X1

25X1

BASIC DESCRIPTION

There has been no apparent change in the Yung-teng Cement Plant since November 1968, the date of the latest imagery used in the previous report.

Heavy smoke was emanating from the dust catchers in December 1969 indicating that all four kilns were operating.

25X1

TOP SECRET25X1
25X1

Top Secret



Top Secret